

What is claimed is:

- Sole A/5*
1. A wireless resource allocation method in a wireless communication system including a plurality of wireless terminals and a single access point having a bridge function, the method comprising the steps of:

    - (a) allocating a wireless resource to a corresponding wireless terminal and receiving data from said wireless terminal in said access point;
    - (b) performing a check to determine whether there is an error in said data which was received from said wireless terminal in said access point in the step (a); and
    - (c) sending an error occurrence message and allocating a wireless resource for retransmission of data to said wireless terminal simultaneously within one frame when said access point detects a data error in the step (b).
  2. The wireless resource allocation method of claim 1, wherein, in the step (c), said error occurrence message is sent to the corresponding wireless terminal while said wireless resource for retransmission is allocated to the corresponding wireless terminal during a down-link period within one frame comprising the down-link period and an up-link period.
  3. The wireless resource allocation method of claim 2, wherein said down-link period comprises a preamble for synchronization, a broadcast period, and a download reservation period.
  4. The wireless resource allocation method of claim 2, wherein said up-link period comprises a contention period, and an upload reservation period.
  5. The wireless resource allocation method of claim 3, wherein during said down-link period, said access point transmits a broadcast message and various control information.
  6. The wireless resource allocation method of claim 5, wherein said various control information includes a length of said download reservation period, a location and a length of a message which said wireless terminal receives during said download reservation period, a length of said contention period, a length of said upload reservation period, a location and a length allocated to a message which will be transmitted by said wireless terminal during said upload reservation period, or

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acknowledge information or not acknowledge information which said wireless terminal transmitted to said access point during said upload reservation period of a previous frame.

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